

DERWENT-ACC-NO: 1992-298406

DERWENT-WEEK: 199236

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TITLE: Polymer based composite material films prodn.
equipment
- roller-drawn metal strip-electrode is coated
with
molten polymer on which piezoceramic articles
are blown
and pressed

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PRIORITY-DATA: 1989SU-4746338 (August 30, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
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ABSTRACTED-PUB-NO: SU 1694411A

BASIC-ABSTRACT:

Strip drawing mechanism (1) has rollers (2) with 1st strip electrode (3) and (9) with 2nd strip-electrode (10), rollers (4) to apply polymer coating, reception drum (17), heater (14). and current source (16). Chamber (5) to introduce filler has sprayer (7) and electrode (8) at angle to one another, plus rollers (11) to form compsn. film 2nd strip electrode (10) is in chamber (5).

An electric motor moves drawing mechanism (1); on to metal strip forming 1st strip-electrode (2) to which -ve potential is fed, molten polymer from tank (12) is applied by rollers (4). Strip with polymer coating moves

between
heated drawing table (13) and chamber (5) to apply filler, using
sprayer (7) at
angle to electrode (8); filler is finely dispersed piezo-ceramic
powder. It is
rejected from electrode (8) at potential = +1000 V and particles are
oriented
as they are embedded in the molten polymer film. Filler particles
are finally
pressed and simultaneously connected to 2nd strip electrode (10),
using rollers
(11).

USE/ADVANTAGE - For mfr. of polymer-based compsn. materials. Mfg.
technology
is improved. Bul.44/30.11.91

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